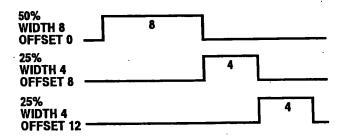
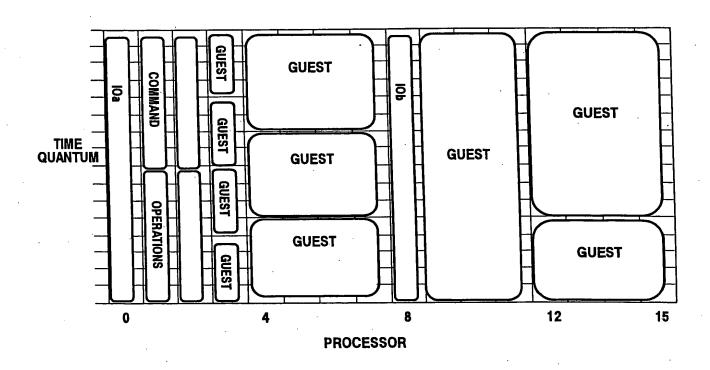


OVERLAPPED PROCESSOR THROTTLING - DEFAULT 4 BIT DUTY WIDTH (1/16 = 6.25%)



Processor Sharing

Figure 5



Processor Schedule

								 1	
IA32/EM32T	PT/PTE	PD/PDE	PDP	PML4					:
Pageantry	PKE	PME	PGE	PTE	BPE	PEE	PZE	PYE	
Page Table	PKM	PMM	PGM	PTM	Mdd	PEM	PZM	PYM	
SI Name	kilo	mega	giga	tera	peta	Exa	zetta	yotta	
SI Prefix	¥	×	G	F	م	ш	7	>	
(2 ¹⁰) ⁿ	-		1 m	4	·	9	7	. @	•

SI Prefixes for Page Table Hierarchy

7/15

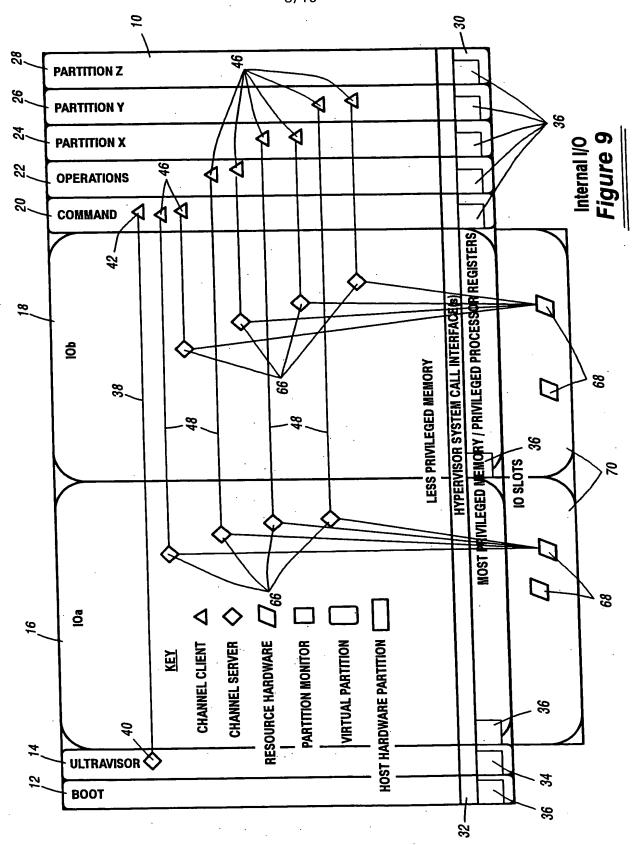
Function GetMemoryOwner [T: 0..1023, G:0..1023, M:0..1023, K:0..1023] of Int32

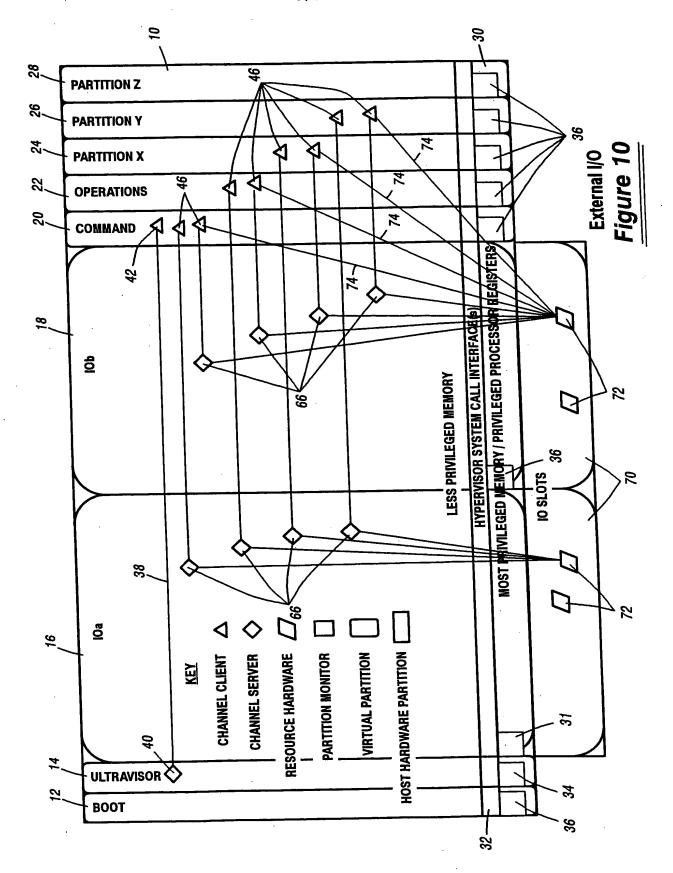
Memory Index Ref	1	GB	MB	КВ
Partition number (32 bits)	os	Node (GB)	MB	КВ

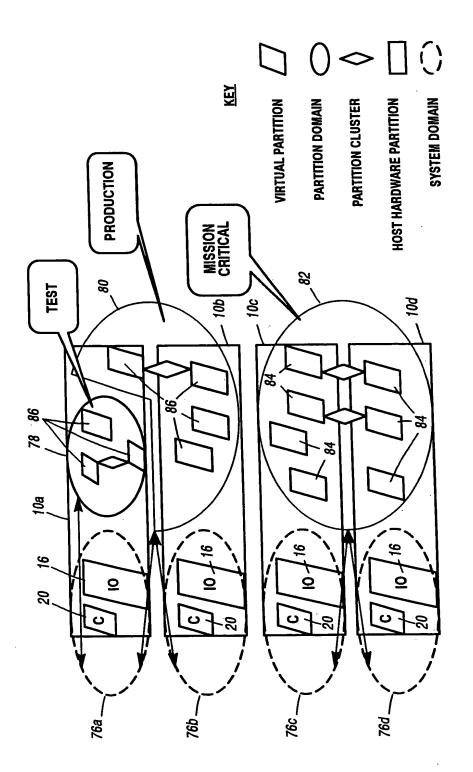
•	•	•	
PGM: T=0 G=x	PMM: T=0 G=0 M=x	PMM: T=0 G=15 M=x	PKM: G=0 M=1 K=x
0: [-, 0,1,1] 1: [0,1,25] 2: [0,1,20] 14: [0,1,20] 15: [-,0,1,16] 16: [0,1,19] 1023 [0,1,19] Mem[0,1,0] Ultravisor Index Type: Index	0: [-, 0,1,22] 1: [-,0,1,18] 2: [0,1,24] 3: [0,1,20] 767: [0,1,20] 768: [0,1,26] 1023: [0,1,26] Mem[0,1,1] Ultravisor Partition Type: Partition	0: [0,1,20] 1023: [0,1,20] -redundant Mem[0,1,16] Partition X Type: Partition	0: [0,1,24] 1: [0,1,24] 23: [0,1,24] 24: [0,1,24] 25: [0,1,25] 26: [0,1,26] 27: [0,1,20] Mem[0,1,18] Partition Y
MapHigh [0,0,0] MapLow [0,1,0] MapOrder 3 Index [0,1,23] Hyper [0,1,24] Avail: [0,1,20]	Id: Ultra Me: [0,1,24] 3.9MB [0,2x]	id: User X Me: [0,1,25] 4GB [1,x,x] (4–7 GB)	ld: User Y Me: [0,1,26] 1GB [0,768,x]– [0,1023x]
Mem[0,1,23]	Mem[0,1,24]	Mem[0,1,25]	Mem[0,1,26]
Partition Missing	Partition Available	Partition Idle	Partition Boot
Type: Partition Id: Missing Me: [0,1,19] 3.9375TB (64GB-4TB]	Type: Partition Id: Available Me: [0,1,20] 58.9GB (8.64GB)	Type: Partition Id: Idle Me: [0,1,21] 64KB <not shown=""></not>	Type: Partition ld: Boot Me: [0,1,22] 4MB [0,0,0]- [0,0,1023]
Mem[0,1,19]	Mem[0,1,20]	Mem[0,1,21]	Mem[0,1,22]

Where Mem[G,M,K] := ((G * 2**10+M) * 2 **10 + K) * 2**10*2**2

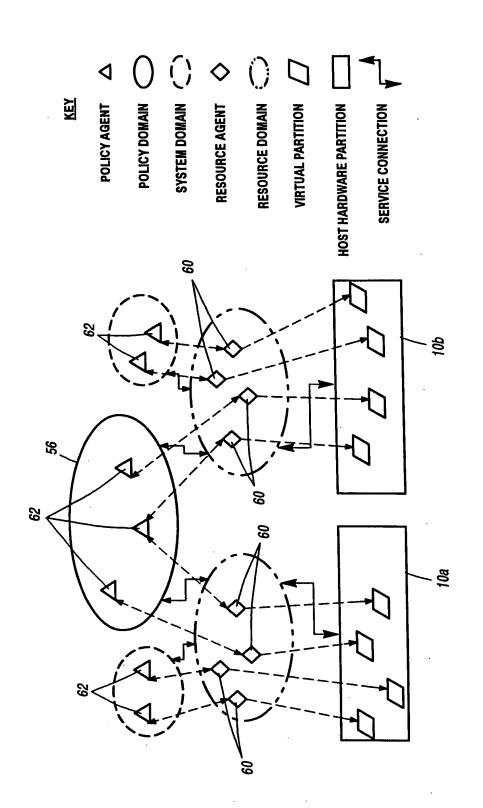
Partition Memory Map



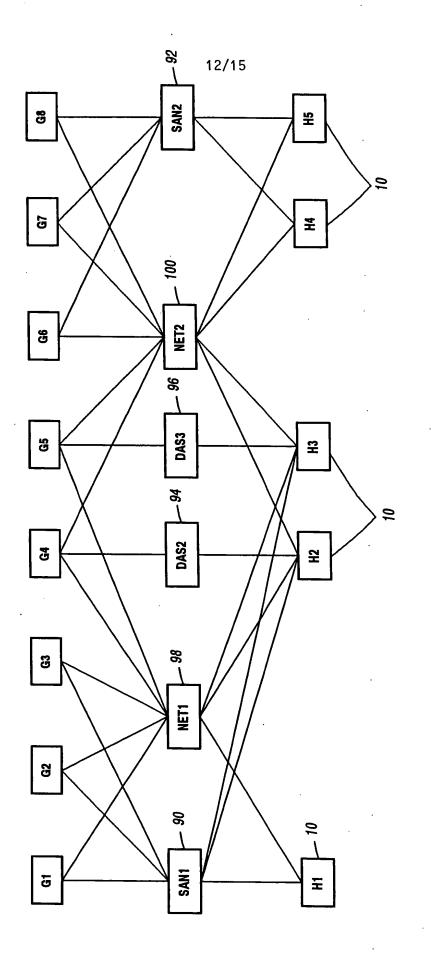




Ultravisor Domains Figure 11



Ultravisor Partition Agents Figure 12



Virtual Data Center Zones
Figure 13

